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for file

EPA 16181301				POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 1 - SITE INFORMATION AND ASSESSMENT				I. IDENTIFICATION	
II. SITE NAME AND LOCATION				01 SITE NAME (Legal, common, or descriptive name of site): Rock Island Arsenal					
02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER: SARRI-ENM-T				03 CITY: Rock Island		04 STATE: IL		05 ZIP CODE: 61299	
06 COUNTY: Rock Island				07 COUNTY CODE: 61		08 CONG DIST: 17		09 COORDINATES	
LATITUDE: 413106.0				LONGITUDE: 0903256.0				Davenport East Overtriangle	
10 DIRECTIONS TO SITE (Starting from nearest public road): Ridgeman Ave. NW from 16th St. bridge to intersection marked 129 on attached map (monument). Turn left and go southeast on unnamed side road to site. The old landfill is south of Sylvan Drive by Warehouse 299.									
III. RESPONSIBLE PARTIES									
01 OWNER (if known): US Army				02 STREET (Business, mailing, residential): SARRI-ENM-T/Dr. W.S. Shore					
03 CITY: Rock Island				04 STATE: IL		05 ZIP CODE: 61299		06 TELEPHONE NUMBER: (309) 794-5504	
07 OPERATOR (if known and different from owner): Same				08 STREET (Business, mailing, residential):					
09 CITY:				10 STATE:		11 ZIP CODE:		12 TELEPHONE NUMBER:	
13 TYPE OF OWNERSHIP (Check one) <input type="checkbox"/> A. PRIVATE <input checked="" type="checkbox"/> B. FEDERAL <u>U.S. Army</u> <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER: <input type="checkbox"/> G. UNKNOWN									
14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply) <input checked="" type="checkbox"/> A. RCRA 3001 DATE RECEIVED <u>8/18/80</u> <input checked="" type="checkbox"/> B. UNCONTROLLED WASTE SITE (CERCLA 103(c)) DATE RECEIVED <u>6/23/81</u> <input type="checkbox"/> C. NONE									
IV. CHARACTERIZATION OF POTENTIAL HAZARD									
01 ON SITE INSPECTION <input checked="" type="checkbox"/> YES DATE <u>3/17/81</u> <input type="checkbox"/> NO				BY (Check all that apply) <input checked="" type="checkbox"/> A. EPA <input checked="" type="checkbox"/> B. EPA CONTRACTOR <input checked="" type="checkbox"/> C. STATE <input checked="" type="checkbox"/> D. OTHER CONTRACTOR <input type="checkbox"/> E. LOCAL HEALTH OFFICIAL <input type="checkbox"/> F. OTHER CONTRACTOR NAME(S): <u>Archaeologist, Name unknown</u>					
02 SITE STATUS (Check one) <input checked="" type="checkbox"/> A. ACTIVE <input type="checkbox"/> B. INACTIVE <input type="checkbox"/> C. UNKNOWN				03 YEARS OF OPERATION BEGINNING YEAR: ENDING YEAR: <input checked="" type="checkbox"/> UNKNOWN					
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED Dirty waste (Unknown) Other Organic (Explosive) Solvents (toxic/persistent/ignitable)									
05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION Groundwater (Environment) Direct Contact (Population/Environment) Surface water (Population/Environment) Fire/Explosion (Population/Environment)									
V. PRIORITY ASSESSMENT									
01 PRIORITY FOR INSPECTION (Check one if high or medium is checked, complete Part 2 Waste Information and Part 3 Description of Hazardous Conditions and Incidents) <input type="checkbox"/> A. HIGH (inspection required promptly) <input checked="" type="checkbox"/> B. MEDIUM (inspection required) <input type="checkbox"/> C. LOW (inspection on time available basis) <input type="checkbox"/> D. NONE (no further action needed, complete current disposition form)									
VI. INFORMATION AVAILABLE FROM									
01 CONTACT: Robert Munger				02 OF (Agency/Organization): IEPA / DLPC				03 TELEPHONE NUMBER: (815) 987-7404	
04 PERSON RESPONSIBLE FOR ASSESSMENT: Robert Munger				05 AGENCY: IEPA		06 ORGANIZATION: DLPC		07 TELEPHONE NUMBER: (815) 987-7404	
08 DATE: 7/18/81				MONTH DAY YEAR					





01 STATE	02 SITE NUMBER
IL	5210021833

01 PHYSICAL STATES	02 WASTE QUANTITY AT SITE	03 WASTE CHARACTERISTICS
<p> <input checked="" type="checkbox"/> A SOLID <input type="checkbox"/> B POWDER/FINES <input checked="" type="checkbox"/> C SLURRY <input type="checkbox"/> D OTHER </p> <p> <input type="checkbox"/> E SLURRY <input type="checkbox"/> F LIQUID <input type="checkbox"/> G GAS </p> <p> <small>Measurements in drums or other containers</small> TONS CUBIC YARDS <i>Unknown</i> NO. OF DRUMS </p>	<p> <input checked="" type="checkbox"/> A TOXIC <input type="checkbox"/> B CORROSIVE <input type="checkbox"/> C RADIOACTIVE <input checked="" type="checkbox"/> D PERSISTENT </p> <p> <input type="checkbox"/> E SOLUBLE <input type="checkbox"/> F INFECTIOUS <input type="checkbox"/> G FLAMMABLE <input checked="" type="checkbox"/> H HIGHLY FLAMMABLE </p> <p> <input checked="" type="checkbox"/> I HIGHLY VOLATILE <input checked="" type="checkbox"/> J EXPLOSIVE <input type="checkbox"/> K REACTIVE <input type="checkbox"/> L INCOMPATIBLE <input type="checkbox"/> M NOT APPLICABLE </p>	

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLO	SLODGE			
OW	OILY WASTE	Unknown		
SOL	SOLVENTS	Unknown		
PSL	PESTICIDES			
OC	OTHER ORGANIC CHEMICALS	Unknown		
IC	INORGANIC CHEMICALS			
ACID	ACIDS			
BASE	BASES			
ME	HEAVY METALS			

[illegible]

LAB/STORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS	trichloroethane	25323-84-1	FDS	Copper	444
FDS	chromium (Plating solution)	7440-77-3	FDS	Zinc	999
FDS	nickle	7440-02-0	FDS		
FDS	chromium	7440-43-9	FDS		

Agricultural report (Attachment)
 Site file IEPA, DAPC Moline District
 Site file IEPA, DLPC Rockford Region
 Installation Assessment of Rock Island Arsenal Report No. 164, US Army Toxic and Hazardous Materials Agency



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IL 5210021833

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 <input checked="" type="checkbox"/> A GROUNDWATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED 384,000	02 <input type="checkbox"/> OBSERVED (DATE _____) 04 NARRATIVE DESCRIPTION	<input checked="" type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED
City waste was found by archeologists in the Hartman Route area. If this waste contains hazardous constituents it could contaminate groundwater.		
01 <input checked="" type="checkbox"/> B SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED 384,000	02 <input type="checkbox"/> OBSERVED (DATE _____) 04 NARRATIVE DESCRIPTION	<input checked="" type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED
Bettendorf, Davenport, Rock Island, and Moline all use the Mississippi as a water supply. Run off or seepage into Mississippi could effect all of these water supplies.		
01 <input type="checkbox"/> C CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED	02 <input type="checkbox"/> OBSERVED (DATE _____) 04 NARRATIVE DESCRIPTION	<input type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED
None known		
01 <input checked="" type="checkbox"/> D FIRE EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED 384,000	02 <input type="checkbox"/> OBSERVED (DATE _____) 04 NARRATIVE DESCRIPTION	<input checked="" type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED
DAPC records indicate that some unexploded bombs may be present in the proving grounds on the east end of the site.		
01 <input checked="" type="checkbox"/> E DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED 6,500	02 <input type="checkbox"/> OBSERVED (DATE _____) 04 NARRATIVE DESCRIPTION	<input checked="" type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED
6,500 people work on the Island. Contact is unlikely since no one works in areas where hazardous wastes might be present.		
01 <input checked="" type="checkbox"/> F CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED 5 1/2 (Acres)	02 <input type="checkbox"/> OBSERVED (DATE _____) 04 NARRATIVE DESCRIPTION	<input checked="" type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED
See A above.		
01 <input checked="" type="checkbox"/> G DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED 384,000	02 <input type="checkbox"/> OBSERVED (DATE _____) 04 NARRATIVE DESCRIPTION	<input checked="" type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED
The surrounding communities get their water from the Mississippi River.		
01 <input checked="" type="checkbox"/> H WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED 6,500	02 <input type="checkbox"/> OBSERVED (DATE _____) 04 NARRATIVE DESCRIPTION	<input checked="" type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED
The potential for worker exposure is low no workers on the Island work in the possible hazardous waste disposal areas.		
01 <input type="checkbox"/> I POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED	02 <input type="checkbox"/> OBSERVED (DATE _____) 04 NARRATIVE DESCRIPTION	<input type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED
None known.		



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
IL 9210021833

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☒ J DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____)

☐ POTENTIAL

☐ ALLEGED

None known

01 ☐ K DAMAGE TO FAUNA

04 NARRATIVE DESCRIPTION (include name(s) of species)

02 ☐ OBSERVED (DATE _____)

☐ POTENTIAL

☐ ALLEGED

None known

01 ☐ L CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____)

☐ POTENTIAL

☐ ALLEGED

None known

01 ☐ M UNSTABLE CONTAINMENT OF WASTES
(Spills runoff standing liquids leaking drums)

03 POPULATION POTENTIALLY AFFECTED _____

02 ☐ OBSERVED (DATE _____)

☐ POTENTIAL

☐ ALLEGED

04 NARRATIVE DESCRIPTION

none known

01 ☐ N DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____)

☐ POTENTIAL

☐ ALLEGED

none known

01 ☐ O CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____)

☐ POTENTIAL

☐ ALLEGED

none known

01 ☐ P ILLEGAL/UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE _____)

☐ POTENTIAL

☐ ALLEGED

none known

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: 334,000

IV. COMMENTS Additional Sources of information

Archeologists report (attached)

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis reports)

Site File DAPC, IEPA Moline District

Site File DAPC, IEPA Rockford Region

Installation Assessment of Rock Island Arsenal Report No. 164, US Army Toxic & Hazardous Materials Agency



DATE: July 18, 1984

TO: R. A. Wengrow

FROM: R. L. Munger *RLM*

SUBJECT: 16181301 - Rock Island County
Rock Island/Rock Island Arsenal
IL5210021833

This facility has been in use by the U. S. Army since July 1862 when Congress approved use of the site as a western Armory. Since then, the site has been used for manufacturing of small arms, and gun mounts, repair and modification of tanks, and loading ammunition and proof firing. The activities included the following industrial processes: casting of ferrous and non-ferrous metals, sheet metal piercing and forming, forging, welding, plating, painting, operation of proof-firing ranges, paint stripping, cleaning, machining, lubricating and metal surface treatment. Division of Air Pollution Control records and ISS inspection reports also mention degreasing with chlorinated solvents and recovery of spent solvents in small stills located in various areas in the arsenal.

According to the 103(c) notification and the Installation Assessment of Rock Island Arsenal Report No. 164 by the U. S. Army Toxic and Hazardous Materials Agency, the two main areas of concern are a landfill on the southern edge of the Island and an area referred to as "area 14" in the eastern third of the Island.

Water obtained from three test holes around the sanitary landfill has been analyzed for heavy metals and based on the results it was concluded that the landfill was not affecting groundwater quality. However, the samples were not tested for parameters which would detect pollution caused by still bottoms from the reclamation of spent solvents and we have no indications that spent solvents or still bottoms were not disposed of here.

The possible existence of contamination in area 14 was discovered during archeological explorations. The archeologists report contains observations which suggest the area had been used to dispose of oily wastes. No samples have been taken from the area for chemical analysis so the exact nature of the contamination, if any, is not known.

This site should be inspected on a medium priority basis. Contamination may have occurred, but there does not appear to be any immediate threat to public health. That inspection should include analysis of groundwater samples from the old landfill area for volatile chlororganics and a search of area 14 to find areas mentioned in the archeologists report. Monitor wells in the vicinity of area 14 may be required.

tl

cc: David Jansen (2) ✓
Rockford Office (2)



DEPARTMENT OF THE ARMY
ROCK ISLAND ARSENAL
ROCK ISLAND, ILLINOIS 61299

Dr. Shore/mah/
(309) 794-5504

REPLY TO
ATTENTION OF:

June 15, 1984

SMCRI-EN

Mr. Robert L. Munger, E. I. T.
Field Operations Section
Division of Land Pollution Control
Illinois Environmental Protection Agency
P. O. Box 915
Rockford, Illinois 61105

Dear Mr. Munger:

This letter is in response to your letter of June 6, 1984, referencing your file entitled, "Rock Island County - No 16181301 Rock Island/Rock Island Arsenal IL 5210021833." The portions of the archeologists' report referred to in the Notification of Hazardous Waste Site (EPA Form 8900-1) are enclosed.

The Environmental Coordinator visited the site in question as soon as these observations were known, about seven months after the findings. Some of the unmarked excavation sites were found, but vegetation, decaying leaves, settling, and erosion obscured the others. None of the contaminants described were observed at that time. As a result, none of the observations have been verified.

Sincerely,

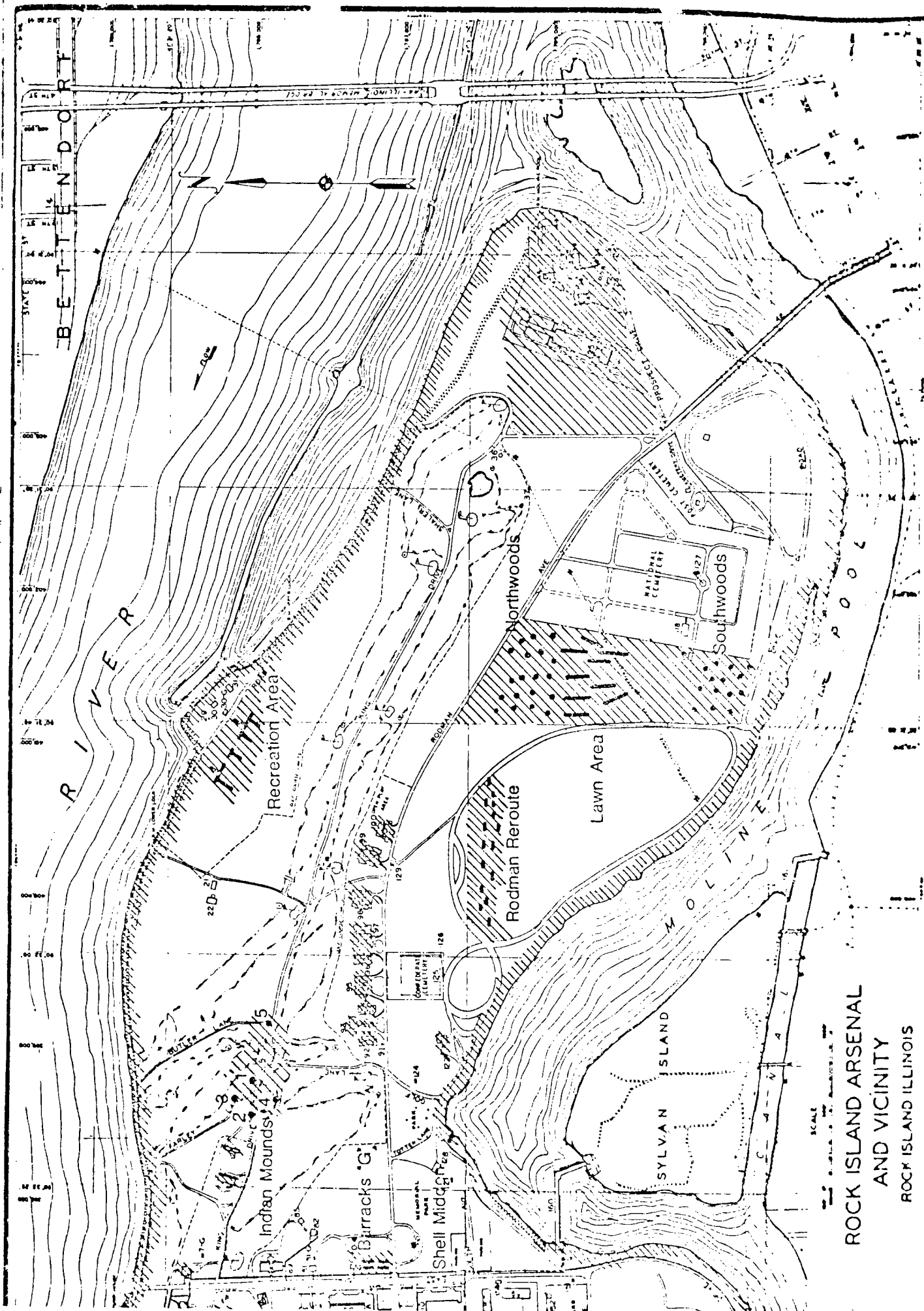
WALTER M. KISNER
Director, Engineering Directorate

Enclosures

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JUN 20 1984

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STATE OF ILLINOIS



ROCK ISLAND ARSENAL
AND VICINITY
ROCK ISLAND ILLINOIS

Fig. 26 Areas Surveyed for EXCAVATIONS

Source: Progress Report, American Survey of 1927
1000 Feet Grid Based on Illinois State Plane, Near Zone
1000 Meter Universal Transverse Mercator Grid, Zone 15 (Corrected 30 September 1965)

and shell deposits covered an area no greater than approximately 4m by 4m. The first unit, about four meters from the edge of the bank, was taken to a depth of 80cm. Shell was encountered from 25 to 40cm below the surface. The second unit, located at the edge of the bank where shell was scattered on the surface, was taken down to 60cm. The shell layer was 10cm thick from the surface and mixed with gravel.

The predominant species in the deposit were the Monkey-Face (*Quadrula metanevra* Rafinesque; Parmalee 1967:39), the Purple Warty-Back (*Cyclonaias tuberculata* Rafinesque; Parmalee 1967:27), and the Mucket (*Actinonaias carinata* Barnes; Parmalee 1967:56). The mixture of species and the presence of a hammerstone indicate this was a cultural rather than natural deposit. The primary problem, which remains unresolved, is whether the deposit was prehistoric or historic. The presence of the hammerstone suggests prehistoric activity, but not conclusively. It is known that Civil War guards and prisoners, and other historic period persons have collected shells from time to time. Furthermore, the presence of early historic concrete piers nearby suggests that the shell/gravel mixture may have been accumulated for use in concrete mixing. Although Ferrel Anderson, president of the Quad Cities Archaeological Society and an Arsenal employee, indicated that others in the past had found cultural material, only one apparent hammerstone was found.

Proposed Recreation Area. Located on the north side of the Island (Fig. 25), this area will include two baseball fields and at least one fieldhouse. No prehistoric or historic sites were mentioned in any of the documentary sources checked for this area.

Nine trenches were dug averaging a meter in depth, and two to 75 meters in length. Examination of the soil indicated its major composition to be fill. Conversations with Arsenal and golf course personnel confirmed our conclusions. The area had been leveled during construction of the dike along the north shore of the Island. Dirt was borrowed to build the base and leveling was completed in the last decade to accommodate recreational users. The central part of the area also has been disturbed through the locating of the leaching pool/septic system for Quarters 30 and 31 (Fig. 25).

Rodman Reroute. The relocation of Rodman Avenue will cut across a wooded area (Fig. 25) which has been used in the past as a dumping ground and discreet storage area. Documentary information (Map of Rock Island Arsenal, n.d.) indicated that among the possible finds to be encountered was a powder magazine, but it is believed that the structure was never built (Bouilly, personal communication).

After preliminary pedestrian reconnaissance, 15 test units were mechanically excavated along the proposed relocation area. Trees, their roots, and large concentrations of thorn bushes made it difficult to survey some parts. In the case of a few test units, the presence of unknown materials--seemingly lubricants, oils, and white crystalline chemical accretions--precluded a thorough examination.

No cultural materials were uncovered in any of the tests.

1919 Barracks. Temporary living quarters were built to house workers in 1918. On 1 January 1919, fire destroyed the one designated as Barracks "G" (Fig. 26, 27). Available time for working here was limited, so testing involved no more than determining the nature of extant remains.

Two trenches were dug on a north-south line, about 15 meters apart. In both, the presence of large amounts of limestone, probably from the foundation of the former barracks, was noted.

Artifacts recovered from trench #2 included earthenware sherds, miscellaneous glass fragments, and wire nails found at 25-30cm below the surface, mixed with crushed limestone. Although temporally nondiagnostic, everything recovered was consistent with an early 20th-century date.

Indian Mounds. Among Rock Island's most noted features are a series of mounds located on a Coyne fine sand ridge (USDA 1977: Sheet 24) terrace on the north side of the Island (Fig. 26). It always has been assumed that they were of aboriginal Indian manufacture, and a sign currently marks the largest one as an "Indian Mound" (Fig. 28). Early references to them include an interview with a Mr. Watts by the local historian, John Hauberg. Watts describes how, when he was five or six years of age, residents on the Island "dug into the mounds and discovered Indian remains," taking "some trinkets, beads and a pipe away" (Hauberg Collection, interview of 12 January 1920). Which specific mound he was referring to is not known. Another reference comes from W. T. Norton, a guard at the Civil War prison camp, who writes that he and other guards found many arrowheads and other aboriginal relics during their off-duty hours (Rock Island Daily Union, 3 October 1915). The camp's location was not far from the mounds.

The first scientific attempt to excavate the mounds was in 1875 when the Davenport Academy of Science expressed an interest. Flagler discouraged it, believing them to be "natural curiosities" and "a valuable attraction and addition to the grounds of the arsenal." He also expresses his ignorance as to the mounds' contents, noting that they have been "carefully preserved" since his arrival, although they

The 14 trenches were consistent and individual notes proved unnecessary.

No artifacts were recovered.

SHELL MIDDEN
(Fig. 26)

The units, already described in the report, were taken down in 10cm levels.

PROPOSED RECREATION AREA
(Fig. 26)

Nine trenches ranging from two meters to 75 meters in length were excavated. No individual notes were taken at the trenches excavated here, since it was learned early that the area had undergone severe modifications. No cultural materials were recovered.

RODMAN REROUTE
(Fig. 26)

Fifteen trenches were dug into the strip that will be affected by the rerouting. Many differences were noted in soil color, texture, etc. No cultural materials were recovered.

Test #1:

0-2cm	humus
2-45cm	brown (10YR5/3) clayey silt
45-71cm	yellow-brown (10YR5/6) silty clay very dry and compact

Test #2:

0-10cm	humus
10-45cm	brown clayey silt
45-86cm	yellow-brown dry clay
86cm	bedrock

Test #3:

0-10cm	humus
10-76cm	brown clayey silt
76-81cm	yellow-brown dry clay
81cm	bedrock

Test #4:

0-15cm	humus
15-66cm	brown clayey silt
66-81cm	yellow-brown clay
81cm	bedrock

Test #5a: Low spot with grease and apparently chemically contaminated soil along surface and especially in humus. The crew did not put in a trench but moved 50 meters south. (The use of terms such as "grease" and "chemical" in these contexts does not imply a technical analysis, but only an attempt to describe observed phenomena in lay terms.)

Test 5b: Less grease and chemicals encountered; mostly confined to the surface; 10-81cm--yellow-brown clay; bedrock at 81cm.

Test #6: Like #5, this unit also is in a chemically affected area but not as bad.

0-5cm	greasy humus
5-36cm	black greasy soil
36-66cm	dark brown, greasy silt
66-79cm	yellow-brown clay
79cm	bedrock

Test #7:

0-40cm	greasy soiled humus and silt mixture
--------	--------------------------------------

40-66cm brown silty clay
66-81cm yellow-brown clay, but moist--
not dry as in other tests.

Test #8:

0-50cm black oily silt
50-66cm black, oily silty clay
66-76cm yellow-brown clay
76cm bedrock

Test #9: Same as #8; bedrock at 84cm.

Test #10:

0-53cm black oily humus/sandy silt mix
53-66cm yellow-brown silty clay
66-79cm reddish-brown (5YR4/4) clay
80cm bedrock

Test #11:

0-63cm black oily humus/silt mix
63-81cm yellow-brown silty clay
81cm bedrock

Test #12:

0-76cm extremely greasy humus/silt mix
76-79cm yellow-brown, red marbled clay
79cm bedrock

Test #13:

0-38cm humus and dark brown silty clay
38-60cm reddish-brown clay

60cm bedrock

Test #14

0-15cm humus
15-74cm reddish-brown silt
74cm bedrock

Test #15:

0-10cm humus
10-60cm brown, reddish-brown silt
60cm bedrock

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1919 BARRACKS
(Fig. 26)

Figure 23b shows the location of the two trenches.

INDIAN MOUND
(Fig. 26)

UNIT 1:

Level 1 (0-20cm)--sand/silt mix; artifacts include scrap metal, plastic waste and a lead shot

Level 2 (20-40cm)--sand, heavily stained from burrowing activity; four secondary chert flakes recovered

Level 3 (40-60cm)--sand; no artifacts

UNIT 2: (Levels follow surface contour)

Level 1 (0-20cm)--sand/silt mix; artifacts were one chert flake and one piece of iron spike

Level 2 (20-40cm)--sand; one secondary decortication flake found

Level 3 (40-60cm)--sand; no artifact recovery